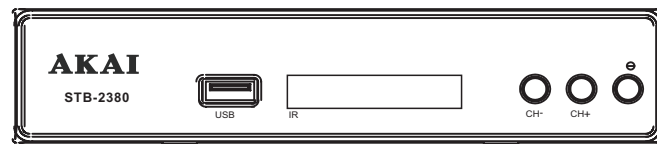# AKAI

Tuner HD DVB-T2
High Definition Digital
Receiver
STB-2380
USER MANUAL

Notice

Warnings, Cautions and Notes

Throughout the whole user manual, pay special attention to the following marks that indicate hazardous situations.

o Warning

Indicates a hazardous situation which could result in serious injury.

o Caution

Indicates a situation which could damage the equipment or other apparatus.

o Note

Indicates additional information to make the user aware of possible problems and information of any importance to help understand, use and maintain the installation.

Meaning of Symbols

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

This symbol indicates dangerous voltage inside the receiver that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the receiver.

Safety Warning

This receiver has been manufactured to comply with international safety standards.
Please read the following safety precautions carefully.

Safety Instructions and Precautions

1. MAIN SUPPLY(90-240V ~ 50/60Hz)

• Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the product from the mains before you start any maintenance or installation procedures.

2. CONNECTION TO THE AERIAL

• Disconnect the product from the mains before connecting or disconnecting the cable from the aerial. Failure to do so can damage the aerial.

3. CONNECTION TO THE TV

• Disconnect the product from the mains before connecting or disconnecting the cable from the TV. Failure to do so can damage the TV.

4. OVERLOADING

• Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

5. LIQUIDS
  • The product should not be exposed to liquid of any kind. In addition, no objects
    filled with liquid should be placed on the apparatus.
6. CLEANING
  • Disconnect the product from the wall outlet before cleaning.
  • Use a light damp cloth (no solvents) to dust the product.
7. VENTLATION
  • The slots on top of the product must be left uncovered to allow proper airflow into
 the unit.
    • Do not stand the product on soft furnishings or carpets.
    • Do not stack electronic equipments on top of the product.
8. ATTACHMENTS
  • Do not use any unsupported attachments as these may be hazardous or cause
    damage to the product.
9. EARTHING
    • The aerial cable must be buried in the ground.
10. EXTRANEOUS OBJECTS
  • Do not insert anything through the openings in the unit, where they can touch
    dangerous voltage points or damage parts.
11. LOCATION
  • Place the product indoors to avoid exposing it to lightning, rain or sun.
  • Do not place it near a radiator or heat register.
  • Make sure it has more than 10 cm clearance from any appliances susceptible to
    electromagnetic influences, such as a TV or a VCR.
  • Do not block the openings with any object, and do not place the product on a bed,
    sofa, rug, or other similar surface.
  • If you place the product on a rack or a bookcase, ensure that there is adequate
    ventilation and that you have followed the manufacturer's instructions for
    mounting.
  • Do not place the product on an unstable cart, stand, tripod, bracket, or table
    where it can fall. A falling product can cause serious injury to a child or adult, and
    serious damage to the appliance.
12. LIGHTNING, STORM or NOT IN USE
    • Unplug the product from the wall outlet and disconnect the antenna during a
      thunderstorm or when left unattended and unused for long periods of time. This
      will prevent damage to the unit due to lightning and power-surges.
13. REPLACEMENT of PARTS
    When replacement of parts is required, be sure the service technician uses
    replacement parts specified by the manufacturer or those that have the same
    characteristics as the original part. Unauthorized substitution may result in
    additional damage to the unit.

Before Using the Product

This section provides detailed instructions on the product and its accessories.

1.1 Front Panel

1 POWER BUTTON

Push to power on/off the main power supply.

2 MENU BUTTON

Displays the main menu.

3 OK BUTTON

Selects a menu, or confirms the selected operation. Also displays the channel list while watching a program.

4 CH+/CH− BUTTON

Moves the TV/radio channel up or down.

5 VOL+/VOL− BUTTON

Adjusts the audio volume.

6 STANDBY INDICATOR

The LED will turnred only when the receiver is in standby mode.

7. OPERATION INDICATOR

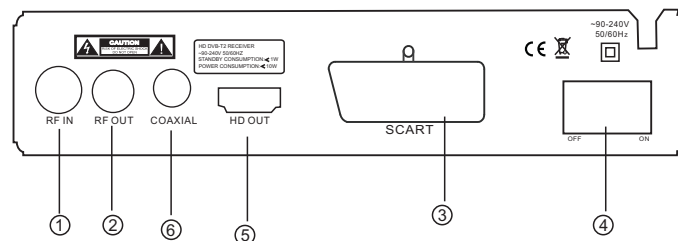The LED will turn green only when the receiver is in operation mode.

8. LED DISPLAY WINDOW

Displays the current channel number.

9. USB port in the flank

It is used to software upgrade and media playback.

1.2 Rear Panel

1. ANT-IN

Connects the aerial cable.

2. ANT-OUT

Connects to the RF IN of the TV using a RF cable.

3. SCART

Connects to the TV using an SCART cable

    4. **POWER**

    5. **HDMI**

      Connects to the TV using an HDMI cable.

    6．COAXIAL S／PDIF

      Connects to the TV and outputs Digital audio output

1.3   Remote Control

| Key	Function	Key	Function
⏻	Tms power ON/OFF of the DTR	PR+,PR-	When watching a progr am,change programs or move to the next higher or lower item in the menu
🔇	When watching a program, mute the sound	⁻VOL⁺	When watching a program, adjust the volume or move to the left or right item in the menu
L/R	Choose audio mode	0 ~ 9	Enter numberof the requir ed menu item or select a program numbe to watch
MENU	Displays the Main Menu on the screen,or return to the previous menu or status	EXIT	Retunes to the previous menu on the menu scr een or es cape from the menu
OK	Executes the selected item in the menu screen or enters the desired value in any input mode	← → KEYS	To adjus t volume level, or to move cursor left or right in the menu
↑ ↓ KEYS	To change channels, or to move cursor up or down in the menu	EPG	Calls up the EPG(Electronic Program Guide)
INFO	Shows information of the cur rent program	TV/RADIO	Switches between TV and Radio mode
FAV	Display the favorite program list	GOTO	Back
SUBT	SUBTITLE	TXT	Switch to teletext mode
USB	To play the JPEG or recording file.	Rec	Press this key st art to record the program
■	Stop to record program	PAUSE	Used to select the freeze function . Press once to freeze the scre en picture.
◄	Seek forward or backward	►	Seek forward or backward
◄◄	Press to fast forward or fast backward	►►	Press to fast fo rward or fast backward
		🟥 🟩 🟨 🟦	Add four color key function: select function teletext mode

2   Setup

This chapter describes how to connect your receiver to the TV with the particular equipments for gaining optimum signal quality. The receiver provides various interfaces to connect to the TV or other devices. Select the most appropriate procedure depending on the equipment you have.

Note: If you encounter any problems setting up your receiver, please contact your local receiver distributor.

2.1   Connecting the Antenna
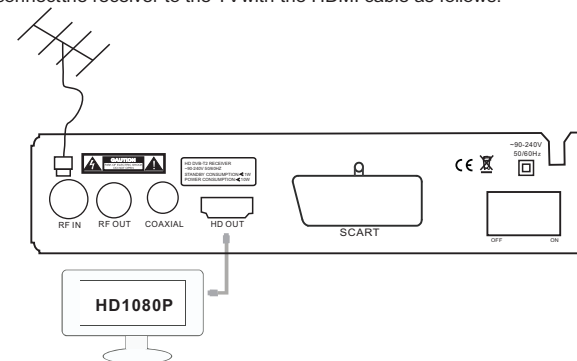
Connect your aerial to the ANTENNA IN as follows.
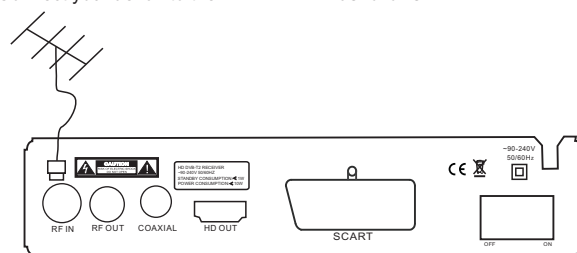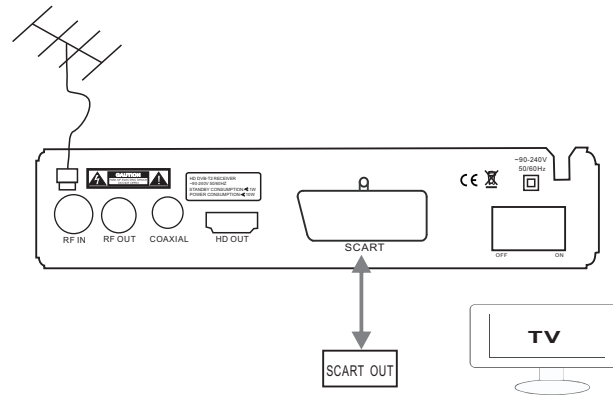

2.2   Connecting the TV
2.2.1   Using HDMI Cable

The HDMI connection is recommended for Digital TV. In case the TV has a HDMI input connector, a special all-digital interface that provides the highest picture quality, connect the receiver to the TV with the HDMI cable as follows.

2. 2. 2   Using SCART Cable

Connect the receiver and the TV using an SCART cable.


2.3   Powering On

1. Connect the power cord of the receiver to a wall outlet.

2. Push on the power button located at the left side on the front panel of the receiver.

Note : The type of power cord varies depending on area. Select the appropriate type for your country .

3   Installation Wizard

If you are using the receiver at the first time or have restored the receiver to Factory Default, the Installation Guide Menu will appear on your TV screen.
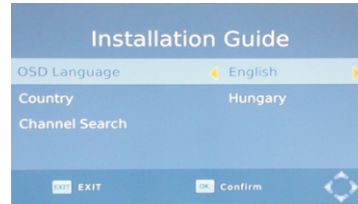

(1) [OSD Language]:Press RIGHT/LEFT key to select a language.
(2) [Country]: Press RIGHT/L EFT key to select your country of residence.
(3) [Channel Search]: Press RIGHT or OK key to begin Automatic channel search.
(4) Once channel tuning   is complete, you can start watching TV programs.

4   Basic Operation

4.1   Program Manage Settings

To access the Menu, press the MENU button   and select   [Program] using the RIGHT/LEFT keys to navigate through the menu. The Menu provides options to adjust the Program Manage Settings. Select an option and press OK or RIGHT to adjust the setting . Press the EXIT button to exit the Menu.
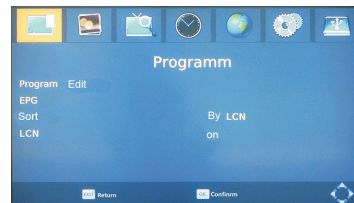
（a）**Program Edit**

To edit your program preferences (lock, skip, favorite , move or delete), you will need to enter the Program Edit Menu. This Menu requires a password to access. The default password is '000000' , while the master unlock password is '888888'.

Set Favorite Channels

You can create a shortlist of favorite programs that you can easily access. Set Favorite TV or Radio program:

1. Select your desired channel then press the FAV button. A heart-shaped symbol will appear and the channel is marked as a favorite.
2. Repeat the previous step to select more Favorite channels.
3. To confirm and exit the Menu, press the EXIT key.

Disable Favorite TV or Radio:

Select the Favorite channel and press FAV button on the remote control to cancel.

View Favorite Channel

1. While in normal viewing mode, press FAV button and the Favorite Menu will appear.
2. Press UP/DOWN to browse through your Favorite Channels
3. Press OK to select your favorite channel.

Delete a TV or Radio Program

1. Select the Program and then press the BLUE button. A warning message will appear. Press OK to delete the channel.
2. Repeat the previous step to select more channels to delete.

Skip TV or Radio Channel

1. Select the channel you would like to skip and press the GREEN button. A skip symbol is displayed. The channel is marked as a skip.
2. Repeat the previous step to skip more channels.
3. To save your settings and exit the menu, press EXIT key.

Disable the Skip Channel function:

Select the skip channel and press the GREEN button on the remote control to cancel.

Move a TV or Radio Program

1. Select the preferred channel then press the RED button. A move symbol will appear.
2. Press UP/DOWN to move the channel.
3. Press OK to confirm.
4. Repeat the above steps to move more channes.

Lock Program
You can lock selected programs for restricted viewing.
Lock a TV or Radio channel
1. Select the preferred channel then press the YELLOW button. A lock-shaped symbol
   is displayed. The channel is now marked as locked.
2. Repeat the previous step to select more channels.
3. To confirm your settings and exit the menu, press the EXIT button.
4. Press the YELLOW button to disable the locked channels function.
5. To view the locked channels,you will be required to enter either the default password
   '000000' or your last set password.The master unlock password is '888888'.
（**b**）**EPG**（**Electronic Program Guide**）
The EPG is an on-screen TV guide that shows scheduled programs seven days in
advance for every tuned channel. Press the EPG button on the Remote Control to
access the guide.
You can use the UP/DOWN key to select the preferred program. If there is more than
one page of information , use the BLUE button for page up and the YELLOW button for
page down.
（**c**）**Sort**
Sort your channels from the following options:
[By LCN] - Sort the channels in ascending order.
[By Service Name] - Sort the channels in alphabetical order.
[By Service ID] - Sort the channels according to the station.
[By ONID] - Sort the channels according to ON ID.
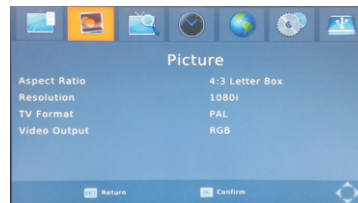（**d**）**LCN**（**Logical Channel Number**）
Set LCNon or off.
4.2   Picture Setting
To access the menu, **press MENU then select [Picture]using the RIGHT**/**LEFTkey**.
The Menu provides options to adjust the video setting. **Press UP**/**DOWN to select
an option and press RIGHT**/**LEFTto adjust that setting**. **Press EXIT to exit th
menu**.

（a）**Resolution**

You can change this setting if the picture resolution does not appear to be correct. This setting is to match the most common setting for HDMI.

[480P]: for NTSC TV system

[576P]: for PAL TV system

[720P]: for NTSC or PAL TV system

[1080I]: for NTSC or PAL TV system

[1080p50Hz]: for NTSC or PAL TV system

（b） **TV Format**

If the picture does not appear to be correct you can change this setting. This setting should match the most common setting for TVs in your country .

[NTSC]: for NTSC system TV.

[PAL]: for PAL system TV.

4.**3** **Channel Search**

To access the menu, press MENU and select [Search Channel] using the RIGHT/LEFT keys. This Menu provides options to adjust the Search Channel settings. Press UP/DOWN to select option and RIGHT/LEFT to adjust the settings . Press EXIT to exit Menu.
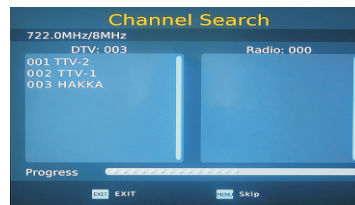

（a） **Auto Search**

This option will automatically search for channels and save them once the scanning is complete. All previously saved channels and settings will be deleted.

1. Select [Auto Search] and press OK or RIGHT to start channel search.
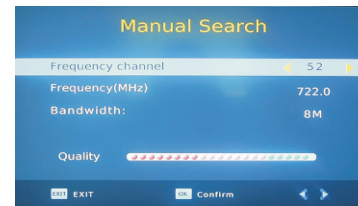
2. To cancel channel search, press EXIT. Any channels that have been found will be saved.

12

（**b**）**Manual Search**

This option allows you to scan for new channels without deleting previously saved channels and settings.

1. Select [Manual Search] then press OK or RIGHT . The channel search screen will appear.

2. Press the RIGHT/LEFT key to select the channel frequency.

3. Press OK to start searching channels.

If a channel is found, it is saved and added to the channels list. If channels can not be found during searching, the receiver will exit automatically .

（**c**）**Country**

Select your country of residence.

（**d**）**Antenna Power**

Enable Antenna Power if an external active antenna is connected.

4.**4   Time Setting**

To access the Menu, press MENU select [Time] using the RIGHT/LEFT keys. The Menu provides options to adjust the time settings. Press UP/DOWN to select an option and press RIGHT/LEFT to adjust the setting. Press EXIT to exit the menu
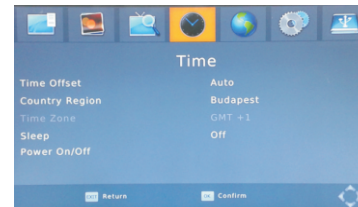
（**a**）**Time offset**

Select auto or man ual for GMT offset adjustments.

（**b**）**Country Region**

Select the Country Region when [Time Offset] is set to Auto.

（**c**）**Time Zone**

Select the Time Zone Offset when [Time Offset] is set to Manual.

（**d**）sleep

Sleep on／off

（**e**）**power on／of**

4.**5 Opti on**

To access the Menu, press MENU and select [Option] using the RIGHT/LEFT keys.
The menu provides options to adjust the OSD Language , Subtitle Language and Audio
Language Select an option and press RIGHT/LEFT to adjust the setting. Press Exit to
exit the Menu.

（**a**）**OSD**（**On Screen Display) Language**

Select an OSD language.

（**b**）**Subtitle Language**

Select the preferred subtitle language.

（**c**）**Audio Language**

Select the preferred audio language for watching TV channels. If the language is not
available, the default program language will be used.

（**d**）**Digital Audio**

Select digital audio output mode.

4.**6 System Setting**

To access the Menu, press MENU select [System] using the RIGHT/LEFT keys. The
menu provides options to adjust the system settings. Press the UP/DOWN key to select
an option and press RIGHT/LEFT to adjust the setting. Press EXIT to exit the Menu.

14
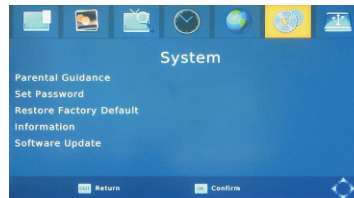
（a）**Set password**
Set or change the password for locked programs.Enter your old password or the
default password '000000'. You will then be asked to enter your new password. Press
OK button to confirm your new password.Once it is confirmed, press EXIT to
exit the Menu. The master unlock password is '888888'.

（b）**Restore Factory Default**
Reset your Set Top Box to the Default Factory Settings. In Main Menu select
[Restore Factory Default] using the RIGHT/LEFT keys and press OK or RIGHT to
select. Enter your password or the default password '0000000' and press OK to confirm.
This option will delete all preset channels and settings. The Master unlock password is
'888888'.

（c）**Information**
View model, hardware and software information.

（d）**Software update**
（1）**If** the status is set 'ON ' , it will scan new software from broadcast according to your
preferred time in "Start time".

（1.1）**Start Time**
This is the time that the receiver will scan for software updates.

（2）**USBupdate**
System can be updated via USB

4.7   USB
To access the Menu, press the **MENU** button and select [USB] using the RIGHT/LEFT
keys. The menu provides options to playback Music, Photo and Multimedia files. It can
support AVI, MP3, WMA, JPEG and BMP etc formats. The receiver will only support
USB device with FAT32 file system. It will not support NTFS file system.
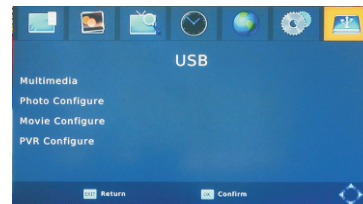
（a）**Multimedia**
When a USB device is attached you can select from the Music, Photo or Movie options
in this menu using the RIGHT/LEFT keys and OK to select. If a USB device is not
connected, the warning message "No USB device is Found" will appear.
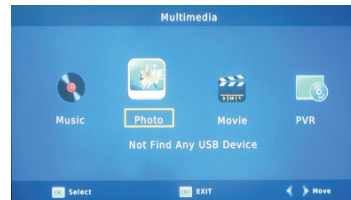
（b）**Photo configure**
－**Slide Time**：adjust slide show interval to 1~8 seconds.
－**Slide Mode**: adjust slide show effect as mode 0~59 or random.
－**Aspect Ratio**:
[Keep]: Play picture in its original aspect.

[Discard]: Play picture in full screen mode.
（c）**Movie Configure**：
－ **Aspect Ratio**：
[Keep]: Play movie in its original aspect.

[Discard]: Play movie in full screen mode.
－ **Subtitle Specific**：
[Small]: Displays the subtitle as small mode.
[Normal]: Displays the subtitle as normal mode .
[Big]: Displays the subtitle as big mode.
－ **Subtitle BG**：
[White]: Displays the subtitle in white background.
[Transparent]: Displays the subtitle in transparent background.
[Grey]: Displays the subtitle in grey background.
[Yellowgreen]: Displays the subtitle in yellowgreen background.
－**Subtitle Font Color**：
[Red]: Displays Subtitle in red font .
[Blue]: Displays Subtitle in blue font.
[Green]: Displays Subtitle in green font.
Notes：
－ **We can't guarantee compatibility (operation and／or bus power) with all USB mass storage devices and assume no responsibility for any loss of data that may occur when connected to this unit**.
－ **With large amounts of data, it may take longer for the system to read the contents of a USB device**.
－**Some USB devices may not be properly recognized**.
－**Even when they are in a supported format, some files may not play or display depending on the content**.

16

5 Trouble Shooting

Problem	Potential Reasons	What to do
No picture	Power isn't connected	Connect the power
	The powers witch is not on	Switch on the power
Screen shows "No Signal"	DVB-T cable not connected	Plug in the DVB-T cable
	Aerial cable is faulty	Check aerial cable and connections
No sound from speaker	No or incorrect connection with audio cable	Connect the audio cable correctly
	Sound on mute	Turn off mute function
Only sound, no image on the screen	No or incorrect connection with AV cable	Make sure cables are connected correctly
	The program is a radio program	Press <TV/RADIO> key to shift into TV mode
Remote control is not working	The battery is exhausted	Change battery
	Remote control is not facing or close enough to the Set Top Box	Adjust the position of the Remote control and move closer to the receiver
Picture is breaking up	The signal is too weak	Check aerial cable and connections

6   Technical Specifications

Item	Sub Item	Parameter
Tuner	Input Frequency	48~862MHz
	RF Input Level	-20~-82dBm
	IF Bandwidth	7MHz and 8MHz
	Modulation	QPSK,1 6QAM, 64QAM , 256 QAM
Video	Decoder Format	MPEG4 AVC/H.264 HP@L4 MPEG2 MP@ML/HL
	Output Format	576P,720P,1080i,1080p50Hz
	Aspect Ratio	4:3, 16:9, Auto
	Output Port	HDMI(V1.3C) ,YPbPr , CVBS
Audio	Decoder Format	MPEG-1(layer1&1&2&3), WMA
	Audio output	S/PDIF(Coaxial), RCA x2(L/R)
USB2.0	Supported Capacity	Unlimited
	Supported Media	MP3, WMA , JEPG, BMP, AVI
Power	Supply Voltage	100~240V 50/60Hz
	Maximum Power Consumption	10W
	Standby Power Consumption	<0.8W